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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/779,322	02/08/2001	Bernd J.W. Mathiske	0007056-0047/P5134/RSH	5892		
32615 7590 04/02/2004 OSHA NOVAK & MAY L.L.P./SUN			EXAMINER BRAGDON, REGINALD GLENWOOD			
, ,			2188			
			DATE MAILED: 04/02/2004	. [		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)		OF		
Office Action Summary		09/779,322		MATHISKE ET AL				
		Examiner		Art Unit	<u></u>			
		Reginald G. Brag	<u> </u>	2188	<del> </del>			
Period fo	The MAILING DATE of this communication a or Reply	appears on the cove	r sneet with the c	orrespondence ad	aress			
THE - Exte efter - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION msions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a in period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by sta reply received by the Office later than three months after the may ed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, howeverthere reply within the statutory miniod will apply and will expire tute, cause the application to	ever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely the mailing date of this co (35 U.S.C. § 133).				
Status								
·	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b) \( \subseteq T \) Since this application is in condition for allow closed in accordance with the practice under	his action is non-fin	mal matters, pro		e merits is			
Disposit	ion of Claims							
5)□ 6)⊠	Claim(s) 1-36 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1,4,13 and 25 is/are rejected.  Claim(s) 2,3,5-12,14-24 and 26-36 is/are objected to.  Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
10)⊠	The specification is objected to by the Exam The drawing(s) filed on <u>23 April 2001</u> is/are: Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	a)⊠ accepted or beheld or	in abeyance. See e drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF	• •			
Priority (	under 35 U.S.C. § 119							
a)(	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure See the attached detailed Office action for a line of the papplication for a line of the papplicatio	ents have been rece ents have been rece riority documents ha eau (PCT Rule 17.2	eived. eived in Application ave been receive (a)).	on No d in this National	Stage			
Attachmen	t(s)							
2) Notice 1	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ler No(s)/Mail Date	08) 5)	Interview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:		D-152)			

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#### **DETAILED ACTION**

### **Drawings**

1. The drawings filed on 23 April 2001 have been approved by the Examiner.

# Specification

2. The abstract of the disclosure is objected to because it is greater than 150 words. Correction is required. See MPEP § 608.01(b).

### Claim Objections

3. Claims 6-8, 14-24, and 30-32 objected to because of the following informalities:

As per claim 6, line 3, "has" should be --have--.

As per claim 7, line 2, "has" should be --have--.

As per claim 14, lines 2-3, "the global store buffer" should be --a global store buffer--.

As per claim 18, line 3, "has" should be --have--.

As per claim 19, line 2, "has" should be --have--.

As per claim 30, line 4, "has" should be --have--.

As per claim 31, line 4, "has" should be --have--.

All dependent claims are objected to as having the same deficiencies as the claims they depend from.

Appropriate correction is required.

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## Claim Rejections - 35 USC § 112

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4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 4, there is a sentence ("marking a plurality of the dedicated mark bits, if they are not set.") at the bottom of page 26 of the specification (under claim 4) that may or may not belong with the limitations of claim 4. Clarification is required as to whether claim 4 should include this sentence.

### Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1, 13, and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Alpern et al. (6,510,440).

As per claims 1, 13, and 25, Alpern et al. teaches a garbage collection system that creates remembered sets. The remembered set 172 contains, among other items, duplicate entries (see

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column 8, lines 64-67; "maintaining the remembered set as a bag"). As a result of garbage collection ("identifying when an event occurs"), the remembered set is processed during step 640 of figure 6 to, among other actions, remove duplicate entries ("transforming the remembered set into a set when the event occurs"). See column 8, lines 64-67.

## Allowable Subject Matter

8. Claims 2-3, 5-12, 14-24, and 26-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

9. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

All "OFFICIAL" patent application related correspondence transmitted by FAX must be directed to the central FAX number at (703) 872-9306:

"INFORMAL" or "DRAFT" FAX communications may be sent to the Examiner at (703) 746-5693, only after approval by the Examiner.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Fourth Floor (receptionist).

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reginald G. Bragdon whose telephone number is (703) 305-3823. The examiner can normally be reached on Monday-Thursday from 7:00 AM to 4:30 PM and every other Friday from 7:00 AM to 3:30 PM.

The examiner's supervisor, Mano Padmanabhan, can be reached at (703) 306-2903.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

RGB March 30, 2004 Reginald G. Bragdon Primary Patent Examiner Art Unit 2188